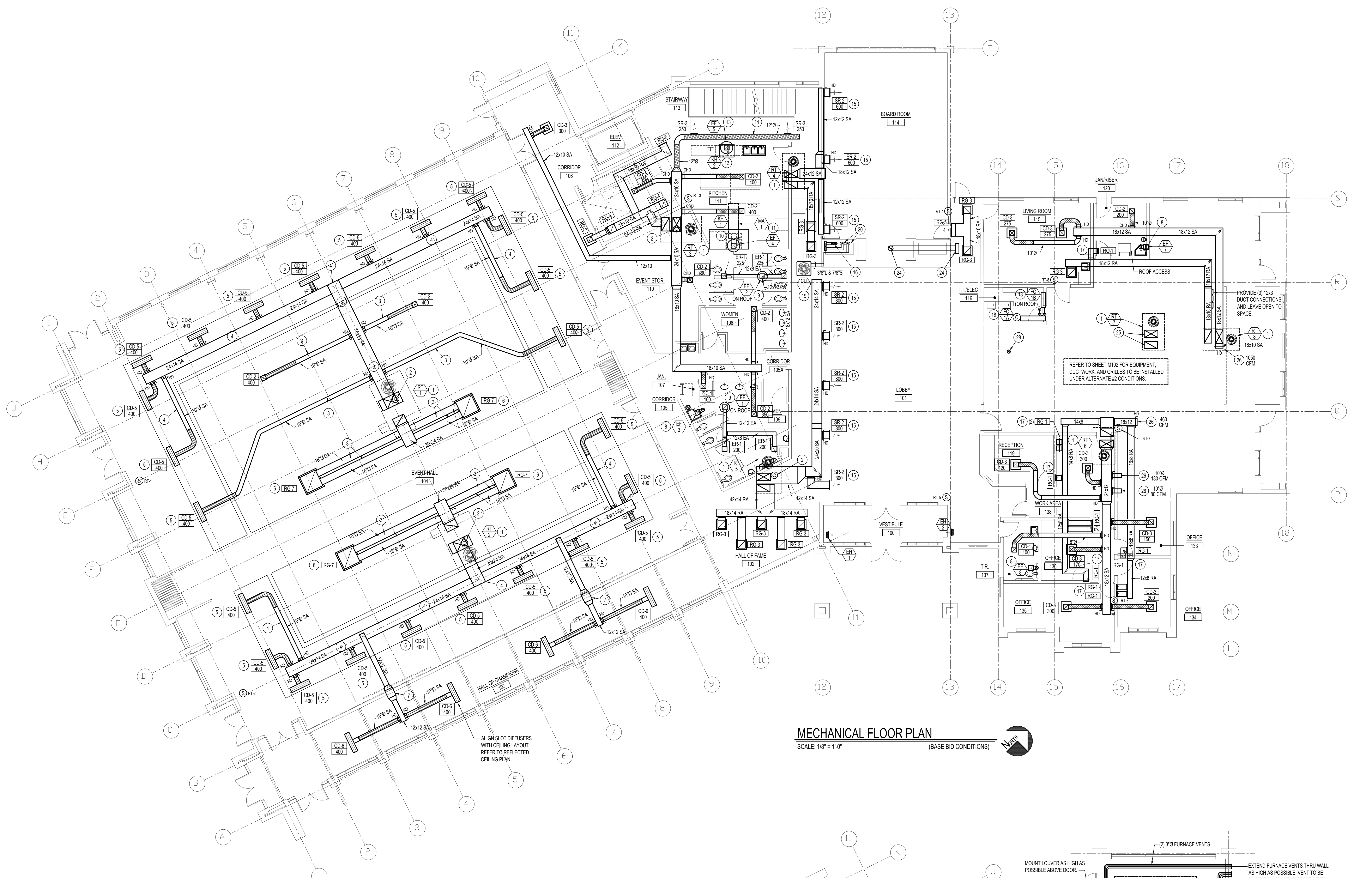
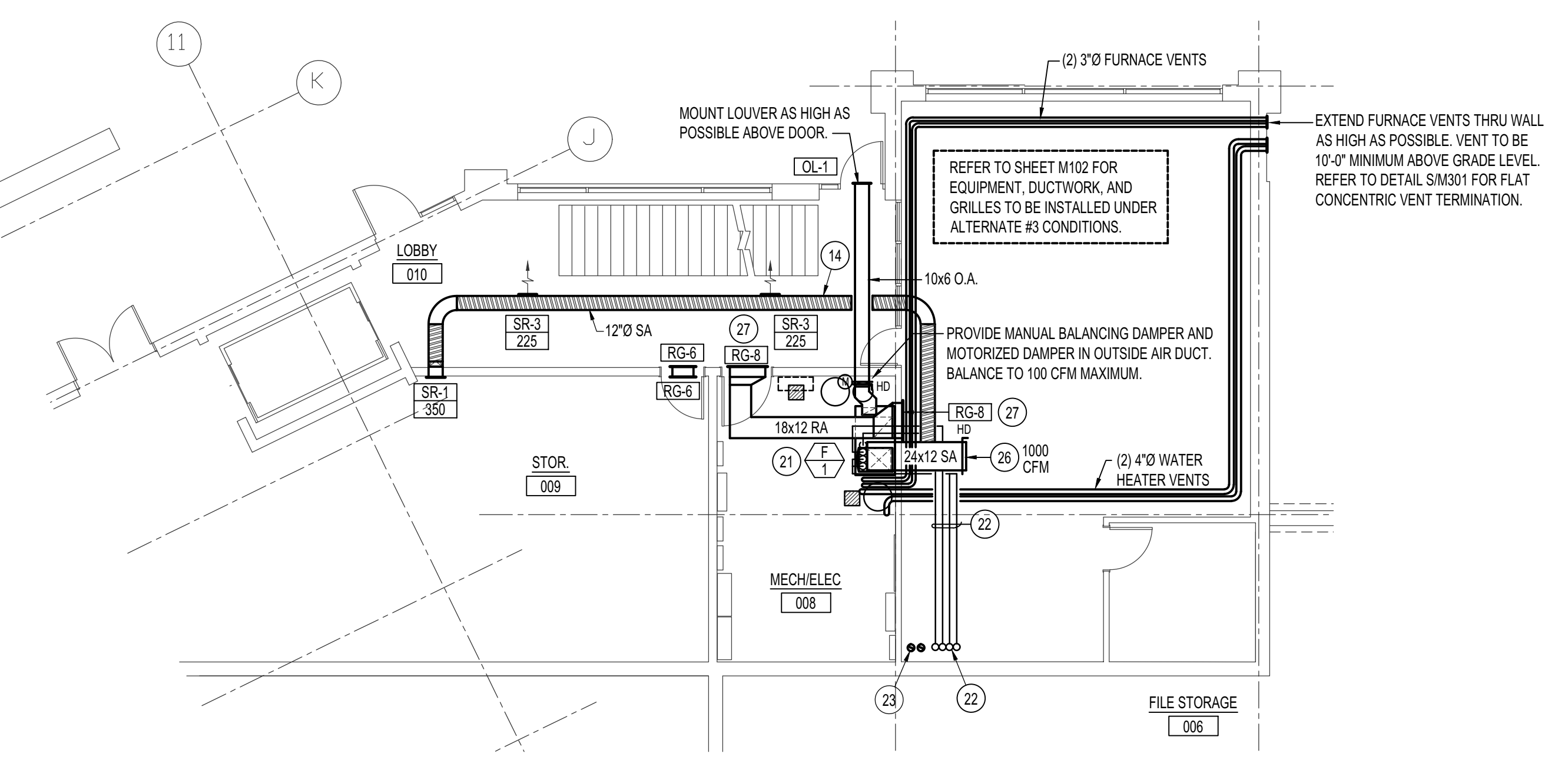


PLAN NOTES:

1. PROVIDE AND INSTALL ROOF MOUNTED EQUIPMENT AS SPECIFIED ON ROOF CURB. COORDINATE EQUIPMENT LOCATION WITH ROOF JOISTS. DROP SUPPLY AND RETURN DUCTS DOWN THRU ROOF AND RUN IN CEILING SPACE (OR JOIST SPACE) AS SHOWN. REFER TO SHEET P101 FOR GAS PIPING TO UNIT.
2. PROVIDE SMOKE DETECTOR IN SUPPLY DUCT FOR UNIT SHUT-DOWN. DETECTOR TO TIE INTO BUILDING FIRE ALARM SYSTEM. SEE ELECTRICAL.
3. RUN DUCTWORK THRU JOIST SPACE. FIELD COORDINATE ROUTING WITH JOISTS AND MAKE ADJUSTMENTS AS REQUIRED.
4. DROP DUCTWORK DOWN INTO LOWER SECTION OF CEILING AND RUN BELOW ROOF JOISTS. COORDINATE WITH STRUCTURE AND WITH LIGHT FIXTURES.
5. PROVIDE LINEAR DIFFUSER AS SPECIFIED. MOUNT IN LOWER SECTION OF CEILING.
6. PROVIDE AND INSTALL 48" x 48" RETURN AIR GRILLE IN CEILING AS SPECIFIED. FIELD COORDINATE ACTUAL LOCATION WITH BUILDING STRUCTURE AND LIGHT FIXTURES. RUN (2) 18" ROOD DUCTS THRU JOIST WEBBING TO CORRESPONDING ROOF TOP EQUIPMENT AS SHOWN.
7. TRANSITION DUCT TO 18" TO PASS BELOW STRUCTURE INTO THE WALL OF CHAMPIONS CEILING SPACE. COORDINATE WITH STRUCTURE.
8. PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN AS SPECIFIED. RISE 6" EXHAUST DUCT UP THRU ROOF WITH ROOF CAP. REFER TO DETAIL M1001 FOR TYPICAL INSTALLATION.
9. PROVIDE AND INSTALL ROOF MOUNTED EXHAUST FAN AS SPECIFIED. MOUNT FAN ON ROOF CURB AND DROP DUCT THRU ROOF TO DIFFUSERS AS SHOWN. REFER TO DETAIL EM001 FOR TYPICAL INSTALLATION.
10. PROVIDE WALL MOUNTED KITCHEN HOOD AS SPECIFIED COMPLETE WITH FIRE SUPPRESSION SYSTEM. REFER TO DETAILS UN001, V001, AND SECTION W001 FOR TYPICAL INSTALLATION AND DUCT CONNECTIONS.
11. PROVIDE ROOF MOUNTED EXHAUST FAN AND MAKE-UP AIR UNIT AS SPECIFIED. MOUNT EQUIPMENT ON SINGLE ROOF CURB AND DROP DUCTWORK THRU ROOF TO DETAILS UN001 FOR EXHAUST FAN INSTALLATION AND TO DETAILS VM001 AND WM001 FOR TYPICAL DUCTWORK CONNECTIONS.
12. PROVIDE WALL MOUNTED VAPOR HOOD AS SPECIFIED. COMPLETE WITH PERIMETER DRAIN. MOUNT ABOVE DISHWASHER AND RISE 10x10 DUCT UP THRU ROOF TO EXHAUST FAN. REFER TO DETAIL RM001 FOR TYPICAL INSTALLATION AND DUCT CONNECTION.
13. PROVIDE ROOF MOUNTED EXHAUST FAN AS SPECIFIED. MOUNT FAN ON ROOF CURB AND DROP DUCTWORK DOWN THRU ROOF. REFER TO DETAIL M001 FOR EXHAUST FAN INSTALLATION.
14. INSTALL EXPOSED ROUND SPIRAL DUCTWORK IN ROOM AS SHOWN. KEEP DUCT AS HIGH AS POSSIBLE. MOUNT DIFFUSERS IN SIZE OF DUCT ON HORIZONTAL PLANE AND BALANCE TO CFM AS INDICATED.
15. PROVIDE AND INSTALL SIDEWALL REGISTER AS SPECIFIED. MOUNT REGISTER AS HIGH AS POSSIBLE IN ROOM AND BALANCE TO CFM AS INDICATED. COORDINATE REGISTER LOCATIONS WITH TRIM WORK IN ROOM. REFER WITH ARCHITECTURAL DRAWINGS FOR TRIM WORK.
16. RISE (2) 6" EXHAUST DUCTS UP IN CHASE FROM BASEMENT LEVEL. RISE TO 2" ABOVE LOWER ROOF AND EXTEND THRU WALL WITH WALL CAP. REFER TO MECHANICAL BASEMENT PLAN (THIS SHEET) FOR CONTINUATION OF DUCTWORK BELOW.
17. MOUNT RETURN AIR GRILLE AT 6" ABOVE FLOOR. RISE 12x3-1/2" UNLINED DUCT UP IN WALL CAVITY TO ABOVE CEILING AND CONNECT TO LINEAR RETURN TRIM DUCT AS SHOWN. REFER TO DETAIL JM001 FOR TYPICAL INSTALLATION.
18. PROVIDE MINI-SPLIT SYSTEM AS SPECIFIED. MOUNT INDOOR UNIT ON WALL AS HIGH AS POSSIBLE. RISE REFRIGERANT PIPING UP THRU ROOF AND CONNECT TO OUTDOOR UNIT. MOUNT OUTDOOR UNIT ON ROOF WITH PYRAMID TYPE SUPPORTS. INDOOR UNIT TO BE FURNISHED WITH CONDENSATE PUMP. RISE 3/4" CONDENSATE DRAIN LINE UP THRU ROOF WITH REFRIG. PIPING. REFER TO PIPING DIAGRAM MM001 FOR PIPING CONNECTIONS. REFER TO DETAIL MM001 FOR PIPE PENETRATIONS THRU ROOF WITH CONDENSEK FITTING.
19. MOUNT CONDENSING UNIT ON ROOF WITH PYRAMID TYPE SUPPORTS. CONNECT REFRIGERANT PIPING TO UNIT AND RUN ON ROOF TO CHASE AS SHOWN. REFER TO PIPING DIAGRAM MM001 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.
20. RISE 3/8" & 7/8" REFRIGERANT LINES AND (2) 3" FURNACE VENTS UP IN CHASE FROM BASEMENT LEVEL. EXTEND REFRIGERANT LINES THRU WALL AND CONNECT TO CONDENSING UNIT. EXTEND FURNACE VENTS THRU WALL AT 2" ABOVE ROOF LEVEL WITH FLAT CONCENTRIC FITTING. REFER TO DETAIL MM001 FOR TYPICAL FURNACE VENT THRU WALL.
21. PROVIDE AND INSTALL GAS FIRED FURNACE WITH MATCHING DX COIL AS SPECIFIED. MOUNT ON FLOOR WITH 1/4" HIGH PLENUM BASE. CONNECT SUPPLY DUCT TO TOP OF UNIT AND RISE UP INTO CEILING SPACE. CONNECT RETURN DUCT AND OUTSIDE AIR DUCT TO TOP OF PLENUM BASE. REFER TO DETAIL MM001 FOR PLENUM BASE CONSTRUCTION.
22. RUN 3/8" & 7/8" REFRIGERANT PIPING AND (2) 3" FURNACE VENTS THRU CEILING SPACE AND RISE UP IN CHASE ABOVE. REFER TO MECHANICAL FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
23. RISE 6" EXHAUST DUCT(S) UP IN CHASE ABOVE. REFER TO MECHANICAL FLOOR PLAN (THIS SHEET) FOR CONTINUATION.
24. CONNECT 12" FLUE TO FIREPLACE. RISE UP IN CHASE AND EXTEND OUT THRU EXTERIOR WALL AT 1" ABOVE LOWER ROOF LEVEL. FIELD VERIFY EXACT SIZE AND LOCATION OF FLUE WITH ACTUAL FIREPLACE SUPPLIER.
25. EXTEND SUPPLY AIR OR RETURN AIR DUCT INTO CEILING SPACE AND LEAVE OPEN. REFER TO SHEET M102 FOR DUCTWORK AND GRILLES TO BE INSTALLED UNDER ALTERNATE #2 CONDITIONS.
26. EXTEND SUPPLY AIR OR RETURN AIR DUCT INTO CEILING SPACE. PROVIDE BALANCING DAMPER IN DUCT AND BALANCE TO CFM AS INDICATED. REFER TO SHEET M102 FOR DUCTWORK AND GRILLES TO BE INSTALLED UNDER ALTERNATE #2 CONDITIONS.
27. PROVIDE RETURN AIR GRILLE AS SPECIFIED. MOUNT AT 6" ABOVE FLOOR AND EXTEND DUCT THRU WALL. TRANSITION RETURN DUCT TO 18" IN 16" AND CONNECT TO TOP OF PLENUM BASE.
28. 6" EXHAUST DUCT UP THRU ROOF WITH ROOF CAP TO BE INSTALLED UNDER BASE BID CONDITIONS. REFER TO SHEET M102 FOR CEILING MOUNTED FAN TO BE INSTALLED AND CONNECTED UNDER ALTERNATE #2 CONDITIONS.



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0" (BASE BID CONDITIONS)



MECHANICAL BASEMENT PLAN
SCALE: 1/8" = 1'-0" (BASE BID CONDITIONS)

Mechanical Plan Review: APPROVED

1. 2018 IMC 506.3.2.5 Grease Duct Test: Prior to the use or concealment of any portion of a grease duct system, a leakage test shall be performed. This test will be required to be provided to the HVAC Inspector prior to concealment of the grease duct.
2. 2018 IMC 507.6 Performance Test: A performance test shall be conducted upon completion and before final approval of the installation of a ventilation system serving commercial cooking appliances. The test shall verify the rate of exhaust airflow of the capacity of the hood, makeup airflow required and proper operation. This test will be required to be provided to the HVAC Inspector prior to final inspection.
3. 2018 IMC 507.2.6 Clearances for Type I Hood: A Type I hood shall be installed with a clearance to combustibles of not less than 18 inches. The clearance requirement of 18" shall not apply to gypsum wallboard or one-half inch or thicker cementitious wallboard attached to noncombustible structures is provided with a smooth, cleanable, nonabsorbent and noncombustible material installed between the hood and the gypsum or cementitious wallboard over an area extending not less than 18 inches in all directions from the hood.
4. The connection between that grease duct and the Type I hood shall be made in accordance with Section 506.3.2.2 of the 2018 IMC and the grease duct connection to the roof mounted exhaust fan shall be in accordance with Section 506.3.2.3 of the 2018 IMC. Documentation for sealing and gasket materials shall be provided to the Mechanical Inspector in order to verify that the products are rated for a temperature of not less than 1500°F.
5. 2018 IMC 506.3.11.2 Field-Applied Grease Duct Enclosure: The manufacturer's installation instructions for the field applied grease wrap system will be required to be provided to the Mechanical Inspector at the time of the fire-wrap inspection in order to verify proper installation and code compliance.
6. Final approval shall be based upon HVAC inspection for adherence to the 2018 IMC, 2018 IFGC, 2018 IRC Parts V & VI, Idaho Statute Title 54 Chapter 50, stamped approved plans and manufacturers installation instructions.

BLD2009-00483
REVIEWED FOR CODE COMPLIANCE
This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

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Historic Preservation
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2018 Licensed Professional Engineer • License No. 12024

BID SET 3-22-2021

Professional Engineer
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STATE OF IDAHO
C. SUTHERLAND
Jan 29, 2021

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IDAHO STATE UNIVERSITY
ALUMNI & VISITOR CENTER
POCATELLO, IDAHO

SHEET TITLE: MECHANICAL FLOOR PLANS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.
DRAWING SCALE APPLIES TO 3/4" x 4 1/2" SHEET SIZE (ANSI Z39.1)
REVISION: _____ DATE: _____

DRAWN BY: M. JENSEN
CHECKED BY: D. SUDWEKS
JOB NUMBER: 96548-13B
PROJECT DATE: FEBRUARY 2021
SHEET **M101** of 5